

Supplementary Table 4: Changes in behavior after MGЕ cell transplantation into epileptic mice										
Test	No. of animals	Measurement	Group	Mean	SEM	Test	P value & power	post hoc test	P value	
Handling	Control = 21 Epilepsy = 25 MGE-HC = 9 MGE-AMG = 10	Handling score	Control	5.57	0.42	One-way ANOVA	F = 76.4 P < 0.001 1-β=1.0	Tukey	Control vs Epilepsy, P < 0.001 Control vs MGE-HC, P = 0.44 Control vs MGE-AMG, P < 0.001 Epilepsy vs MGE-HC, P < 0.001 Epilepsy vs MGE-AMG, P = 0.15	
			Epilepsy	13.64	0.54					
			MGE-HC	6.89	0.73					
			MGE-AMG	15.40	0.31					
Open Field	Control = 21 Epilepsy = 18 MGE-HC = 9 MGE-AMG = 10	Distance traveled (cm)	OFT 1 (before pilocarpine)	Control	4742.43	164.10	Two-way rm ANOVA	Treatment F = 5.94 P < 0.01 1-β=0.9	Tukey (OFT1 vs OFT2)	Control, P = 0.31 Epilepsy, P < 0.01 MGE-HC, P = 0.38 MGE-AMG, P < 0.001
				Epilepsy	5067.22	238.44				
				MGE-HC	5259.44	324.97				
				MGE-AMG	4665.90	255.41				
			OFT 2 (2 wk post-SE)	Control	4582.52	216.69		OFT F = 10.77 P < 0.001 1-β=0.988	Tukey (OFT2 vs OFT3)	Control, P = 0.64 Epilepsy, P = 0.93 MGE-HC, P < 0.05 MGE-AMG, P < 0.01
				Epilepsy	7464.61	673.73				
				MGE-HC	6756.00	1839.57				
				MGE-AMG	8720.70	980.04				
			OFT 3 (60 DAT)	Control	3919.71	283.04		Interaction F = 4.38 P < 0.001 1-β=0.936	Tukey (within OFT3)	Control vs Epilepsy, P < 0.001 Control vs MGE-HC, P = 0.99 Control vs MGE-AMG, P = 0.81 Epilepsy vs MGE-HC, P < 0.001 Epilepsy vs MGE-AMG, P < 0.05
				Epilepsy	7745.33	1151.65				
				MGE-HC	3652.67	860.84				
				MGE-AMG	4823.10	1097.63				
Rot-a-rod	Control = 12 Epilepsy = 19 MGE-HC = 9 MGE-AMG = 10	Time (s)	Control	218.00	18.00	One-way ANOVA	F = 1.1 P = 0.38 1-β=0.06	-	-	
			Epilepsy	203.00	17.00					
			MGE-HC	251.00	18.00					
			MGE-AMG	224.00	20.00					
		RPM reached	Control	32.76	2.46	One-way ANOVA	F = 1.2 P = 0.31 1-β=0.09	-	-	
			Epilepsy	30.47	2.13					
			MGE-HC	36.48	1.72					
			MGE-AMG	33.90	2.16					
EEG seizures	Control = 3 Epilepsy = 14 MGE-HC = 8 MGE-AMG = 8	Frequency (szr / day)	Control	-	-	One-way ANOVA	F = 7.3 P < 0.01 1-β=0.87	Tukey	Epilepsy vs MGE-HC, P < 0.01 Epilepsy vs MGE-AMG, P = 0.98	
			Epilepsy	2.36	0.46					
			MGE-HC	0.17	0.09					
			MGE-AMG	2.24	0.46					
		Duration (s)	Control	-	-	One-way ANOVA	F = 2.3 P = 0.124 1-β=0.242	-	-	
			Epilepsy	55.15	2.78					
			MGE-HC	41.75	6.70					
			MGE-AMG	60.88	7.41					

Elevated plus maze	Control = 15 Epilepsy = 18 MGE-HC = 8 MGE-AMG = 7	Time in open arm (s)		Control	33.44	11.95	One-way ANOVA	F = 2.1 P = 0.12 1-β=0.267	-	-		
				Epilepsy	121.23	29.64						
				MGE-HC	82.21	38.41						
				MGE-AMG	93.21	39.61						
		Open arm entries		Control	10.00	2.14	One-way ANOVA	F = 1.8 P = 0.16 1-β=0.203	-	-		
				Epilepsy	19.78	3.82						
				MGE-HC	15.13	4.42						
				MGE-AMG	11.71	3.31						
		Percentage time in open arms		Control	5.60	2.00	One-way ANOVA	F = 2.1 P = 0.14 1-β=0.268	-	-		
				Epilepsy	20.20	4.90						
				MGE-HC	13.70	6.40						
				MGE-AMG	15.54	6.60						
		Visible platform	Session 1	Control	48.46	2.73	Two-way rm ANOVA	Treatment F = 2.6 P = 0.1 1-β=0.4	Tukey	Session 1 vs Session 4 Control, P < 0.001 Epilepsy, P < 0.001 MGE-HC, P < 0.001 MGE-AMG, P < 0.001 Treatment Control vs Epilepsy, P = 0.21 Control vs MGE-HC, P = 0.17 Control vs MGE-AMG, P = 0.1 Epilepsy vs MGE-HC, P = 0.99 Epilepsy vs MGE-AMG, P = 0.89		
				Epilepsy	43.40	4.51						
				MGE-HC	52.60	5.04						
				MGE-AMG	48.05	4.22						
			Session 2	Control	22.38	3.07		Session F = 56.4 P < 0.001 1-β=1.0				
				Epilepsy	33.28	4.60						
				MGE-HC	42.87	5.24						
				MGE-AMG	39.77	6.73						
			Session 3	Control	16.12	2.78		Interaction F = 2.3 P = 0.02 1-β=0.61				
				Epilepsy	25.72	4.47						
				MGE-HC	17.74	3.42						
				MGE-AMG	28.44	5.62						
			Session 4	Control	10.98	1.21						
				Epilepsy	22.19	3.20						
				MGE-HC	15.45	2.04						
				MGE-AMG	19.45	2.50						
			Session 1	Control	39.23	3.67						
				Epilepsy	47.13	3.30						
				MGE-HC	43.65	5.95						
				MGE-AMG	46.21	4.21						
			Session 2	Control	24.12	4.98						
				Epilepsy	48.09	3.11						

Morris water maze	Control = 10 Epilepsy = 11 MGE-HC = 8 MGE-AMG = 6	Hidden platform	Session 2	MGE-HC	36.88	5.61	Two-way rm ANOVA	Treatment $F = 9.6$ $P < 0.001$ $1-\beta=0.99$	Tukey	Control vs Epilepsy, $P < 0.001$ Control vs MGE-HC, $P = 0.2$ Control vs MGE-AMG, $P < 0.05$ Epilepsy vs MGE-HC, $P < 0.05$ Epilepsy vs MGE-AMG, $P = 0.4$
				MGE-AMG	37.95	5.95				
				Control	29.04	3.02				
				Epilepsy	42.51	4.03				
				MGE-HC	35.68	4.93				
				MGE-AMG	32.80	6.05				
			Session 3	Control	26.20	2.48	Interaction $F = 1.0$ $P = 0.46$ $1-\beta=0.05$	Tukey		
				Epilepsy	46.83	3.24				
				MGE-HC	35.99	5.00				
				MGE-AMG	41.21	5.61				
			Session 4	Control	21.44	2.34	One-way ANOVA	F = 6.3 $P < 0.01$ $1-\beta=0.9$	Tukey	Control vs Epilepsy, $P < 0.05$ Control vs MGE-HC, $P = 0.99$ Control vs MGE-AMG, $P < 0.05$ Epilepsy vs MGE-HC, $P < 0.05$ Epilepsy vs MGE-AMG, $P = 0.99$
				Epilepsy	43.66	4.41				
				MGE-HC	28.81	6.24				
				MGE-AMG	34.12	5.98				
			Session 5	Control	19.78	3.01				
				Epilepsy	44.13	3.39				
				MGE-HC	25.62	5.90				
				MGE-AMG	40.73	4.87				
			Session 6	Control	4.10	0.53				
				Epilepsy	1.55	0.31				
				MGE-HC	4.00	1.09				
				MGE-AMG	1.23	0.29				
			Platform crossings	Control	17.80	2.88	One-way ANOVA	F = 43.541 $P < 0.001$ $1-\beta=1.0$	Tukey	Target vs Adj right, $P < 0.001$ Target vs Opposite, $P < 0.001$ Target vs Adj left, $P < 0.001$ all other comparisons, $P > 0.6$
				Target	51.45	3.41				
				Opposite	12.87	2.25				
				Adj left	12.81	2.63				
			Probe test	Control	Adj right	24.54	One-way ANOVA	F = 1.017 $P = 0.395$ $1-\beta=0.052$	Tukey	-
				Percentage time in target quadrant	Target	16.86				
				Opposite	20.66	6.17				
				Adj left	20.03	3.07				
			MGE-HC	Epilepsy	Adj right	13.93	One-way ANOVA	F = 18.38 $P < 0.001$ $1-\beta=1.0$	Tukey	Target vs Adj right, $P < 0.001$ Target vs Opposite, $P < 0.001$ Target vs Adj left, $P < 0.001$ all other comparisons, $P > 0.1$
				Percentage time in target quadrant	Target	45.96				
				Opposite	11.28	3.29				
				Adj left	23.22	3.39				

			MGE-AMG Percentage time in target quadrant	Adj right	14.13	3.34	One-way ANOVA	F = 2.267 P = 0.11 1-β=0.287	-	-
				Target	36.65	9.24				
				Opposite	21.17	5.93				
				Adj left	24.15	4.99				
Forced swim	Control = 10 Epilepsy = 13 MGE-HC = 8 MGE-AMG = 7	Time immobile (s)		Control	137.20	17.73	One-way ANOVA	F = 21.3 P < 0.001 1-β=1.0	Tukey	Control vs Epilepsy, P < 0.001 Control vs MGE-HC, P < 0.001 Control vs MGE-AMG, P < 0.001 Epilepsy vs MGE-HC, P = 0.94 Epilepsy vs MGE-AMG, P = 0.52
				Epilepsy	41.15	6.75				
				MGE-HC	49.38	9.26				
				MGE-AMG	18.14	6.55				